

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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To: THOMPSON, Clive, Beresford GlaxoSmithKline **GLAXOSMITHKLINE** Corporate IP NOTIFICATION OF TRANSMITTAL OF Corporate Intell. Property Received BRENTFORDHE INTERNATIONAL PRELIMINARY (CN925.1) **EXAMINATION REPORT** 980 Great West Road 2 0 MAY 2004 Brentford, Middlesex TW8 9GS (PCT Rule 71.1) **GRANDE BRETAGNE** ON UPDATED (Charmontpayear) IPM : N/A 18.05.2004 ATTY CHECKED/FILE Applicant's or agent's file reference IMPORTANT NOTIFICATION AXP/PG4788 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/EP 03/03348 27.03.2003 28.03.2002 Applicant GLAXO GROUP LIMITED

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	ant's or a	agent's file reference 8	FOR FURTHER ACTION	N See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
			International filing date (day/mo	Priority date (day/month/year) 28.03.2002		
_	tional P 31/537		or both national classification and IPC	С		
Applica GLAX		OUP LIMITED				
			xamination report has been prep the applicant according to Article	pared by this International Preliminary Examining e 36.	-	
2. 1	2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.					
3. 1	This rep	ort contains indications	relating to the following items:			
1	_	•				
I	_					
-	II 🛛			, inventive step and industrial applicability		
•	v 🗆			4		
\	/ ⊠		nt under Hule 66.2(a)(li) with rega lations supporting such statemer	ard to novelty, inventive step or industrial applicability int	y;	
\	vi 🗆	Certain documents	cited			
VII Certain defects in the international application						
\	VIII 🗆	Certain observation	s on the international application	ח		
··						
Date of	submis	sion of the demand	Date	of completion of this report		
30.09.	30.09.2003			05.2004		
	Name and mailing address of the international			orized Officer	······································	
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				age Comments of the Comments o	• •	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03348

1.	Basi	s of t	he re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages					
	1-7	8	as originally filed				
	Cla	ims, Numbers					
	1-2	4	as originally filed				
2.	With	With regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.					
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).				
☐ the language of publication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.3	inslation furnished for the purposes of international preliminary examination (under 3).				
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the inter	rnational application in written form.				
		filed together with the	e international application in computer readable form.				
		furnished subsequer	itly to this Authority in written form.				
		furnished subsequer	itly to this Authority in computer readable form.				
		The statement that the international approximation of the international approximation of the statement of th	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furnit	ne information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.			established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this				
6.	Add	itional observations, i	f necessary:				

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Ш	II. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1.	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:				
☐ the entire international application,						
☐ claims Nos. 18(part),19(part),23						
because:						
	the said international application, or the said claims Nos. 23 relate to the following subject matter whi does not require an international preliminary examination (specify):					
		see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 18(part),19(particular elements below):				icular elements below) or said claims Nos. 18(part),19(part) be formed <i>(specify)</i> :	
	see separate sheet					
		the claims, or said claims Nos could be formed.	are s	o inadequate	ely supported by the description that no meaningful opinion	
		no international search report has been established for the said claims Nos.				
2.	or a	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and r amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative nstructions:				
		the written form has not been	furnist	ned or does n	not comply with the Standard.	
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.	
٧.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Stat	tatement				
	Nov	elty (N)	Yes: No:	Claims Claims	1-18, 20-24 19	
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-18,20-24 19	
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-22,24	

2. Citations and explanations

see separate sheet

III. Non-establishment of opinion

Claims 18 and 19 do not fulfil the requirements of Article 6 PCT and have thus only been searched insofar as the "protected amino group" is as defined on p. 28, I. 17.

Claim 23 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(i) PCT).

٧. **Reasoned statement**

Reference is made to the following documents:

D1: WO-A-0031032

D2: Journal Of Medicinal Chemistry, American Chemical Society.

Washington, US (05-1990), 33(5), 1406-1413

Novelty

The compounds of claim 1 differ from those of D1 because of the presence of a morpholine ring rather than a pyrrolidine ring.

D2 discloses a compound 9 which is novelty destroying for claim 19. Claim 19 therefore does not fulfil the requirements of Article 33(2) PCT.

Inventive step

In view of the lack of novelty, claim 19 cannot be considered inventive. The compounds of D1 are CCR-3 antagonists. The technical problem appears to be the provision of further CCR-3 antagonists for use in the treatment of inflammatory diseases. The cited documents do not make it obvious to replace the pyrrolidine ring by morpholine in the expectation that the activity would be maintained. Therefore those compounds of claim 1 which have the alleged activity may be considered inventive. The intermediates of claims 18 and 19 possess a direct precursor of the morpholine ring which makes claim 1 inventive, hence those intermediates which are new are also considered inventive. Claims 1-18, 20-24 fulfil the requirements of Article 33(3) PCT.

Industrial applicability

Claims 1-22, 24 fulfil the requirements of Article 33(4) PCT. No unified criteria exist in the PCT Contracting States for assessing whether

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present claim 23 is industrially applicable. The patentability can be dependent upon the formulation of the claims. For example, the EPO does not consider claims to the use of a compound in medical treatment to be industrially applicable, but allows claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.